

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
430117.413C1EXPRESS MAIL NO.  
EL897871574US

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Greg K. Justice et al.

FILING DATE

February 20, 2002

GROUP ART UNIT

1753

10/08/1862  
02/20/02

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ASD	AA	1,217,643	02/27/17	Schneider	204	271	
	AB	1,862,663	06/14/32	Curtis			
	AC	2,468,357	04/26/49	Brown	204	248	
	AD	2,864,750	12/16/58	Hughes, Jr. et al.	204	149	
	AE	3,095,365	06/25/63	Green	204	229	
	AF	3,523,891	08/11/70	Mehl	210	44	
	AG	3,654,119	04/04/72	White et al.	204	228	
	AH	3,728,245	04/17/73	Preis et al.	204	275	
	AI	3,819,504	06/25/74	Bennett	204	289	
	AJ	3,865,710	02/11/75	Phipps	204	228	
	AK	3,925,176	12/09/75	Okert	204	152	
	AL	3,943,044	03/09/76	Fenn, III et al.	204	149	
	AM	4,017,375	04/12/77	Pohto	204	255	
	AN	4,061,556	12/06/77	Reis et al.	204	271	
	AO	4,107,021	08/15/78	Okazaki	204	263	
	AP	4,119,517	10/10/78	Hengst	204	229	
ASD	AQ	4,119,520	10/10/78	Paschakarnis et al.	204	276	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
ASD	AR	105,641	05/25/17	Great Britain			
ASD	AS	2.150.168	03/30/73	France			

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ASD	AT	The Advanced Water Systems Incorporated, "The Water Technologies", company brochure regarding information on various products to improve water quality, different types of water systems and current technology, September 30, 1993.					
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A. P. Hiasge

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6/29/00

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<i>AS</i>	AU	4,132,620	01/02/79	Nidola et al.	204	242	
	AV	4,160,716	07/10/79	Wiseman	204	270	
	AW	4,180,445	12/25/79	Bennett et al.	204	129	
	AX	4,312,736	01/26/82	Menth et al.	204	255	
	AY	4,385,973	05/31/83	Reis et al.	204	149	
	AZ	4,419,206	12/06/83	Frame	204	228	
	BA	4,425,216	01/10/84	Neymeyer	204	270	
	BB	4,436,601	03/13/84	Branchick et al.	204	149	
	BC	4,451,341	05/29/84	Miller	204	149	
	BD	4,481,096	11/06/84	Okazaki	204	265	
	BE	4,528,083	07/09/85	LaConti et al.	204	265	
	BF	4,572,775	02/25/86	Paniagua	204	229	
	BG	4,623,436	11/18/86	Umehara	204	149	
	BH	4,639,303	01/27/87	Staab et al.	204	258	
	BI	4,761,208	08/02/88	Gram et al.	204	95	
	BJ	4,781,805	11/01/88	Dahlgren	204	149	
<i>AS</i>	BK	4,783,246	11/08/88	Langeland et al.	204	95	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
<i>AS</i>	BL	WO 87/01690	03/26/87	PCT			
<i>AS</i>	BM	WO 95/21795	08/17/95	PCT			

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

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*6/29/03*

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Greg K. Justice et al.

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ABD	BO	4,784,735	11/15/88	Sorenson	204	98	
	BP	4,790,914	12/13/88	Sorenson	204	98	
	BQ	4,797,182	01/10/89	Beer et al.	204	14.1	
	BR	4,839,007	06/13/89	Kötz et al.	204	149	
	BS	4,917,782	04/17/90	Davies	204	152	
	BT	4,936,979	06/26/90	Brown	210	85	
	BU	5,062,940	11/05/91	Davies	204	228	
	BV	5,100,502	03/31/92	Murdoch et al.	156	643	
	BW	5,292,412	03/08/94	Pitton	204	149	
	BX	5,324,398	06/28/94	Erickson et al.	204	149	
	BY	5,324,434	06/28/98	Oikawa et al.	210	87	
	BZ	5,328,584	07/12/94	Erickson et al.	204	229	
	CA	5,389,214	02/14/95	Erickson et al.	204	149	
	CB	5,427,667	06/27/95	Bakhr et al.	204	260	
	CC	5,460,702	10/24/95	Birkbeck et al.	204	149	
ABD	CD	5,728,287	03/17/98	Hough et al.	205	743	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
ABD	CE	WO 98/04502	02/05/98	PCT			
ABD	CF	WO 99/24369	05/20/99	PCT			

**OTHER PRIOR ART** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

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6/29/03

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 430117.413C1		EXPRESS MAIL NO. EL897871574US	
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>				APPLICANTS Greg K. Justice et al.			
				FILING DATE February 20, 2002		GROUP ART UNIT 1753	
*EXAMINER INITIAL	CH	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Ad		5,759,384	06/02/98	Silveri	205	743	
	CI	5,876,575	03/02/99	Kump	204	197	
	CJ	5,911,870	06/15/99	Hough	205	701	
	CK	5,928,503	7/27/99	Shang-Chun	210	86	
Ad	CL	5,944,978	08/31/99	Okazaki	205	701	
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
EXAMINER				DATE CONSIDERED			
Ad				6/29/02			

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Sheet 1 of 1

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
430117.413C1APPLICATION NO.  
10/081,862

## INFORMATION DISCLOSURE STATEMENT

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APPLICANTS  
Kit G. Baldwin et al.FILING DATE  
February 20, 2002GROUP ART UNIT  
17A 53

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	4,089,768	05/16/78	Fischer et al.	204	228	
AS	AB	5,944,978	08/31/99	Okazaki	205	701	
AS	AC	6,126,797	10/03/02	Sato et al.	204	272	
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
AS	AK	DE3121337A1	12/16/82	Germany		X
	AL	DE9016603.5	02/28/91	Germany		X
	AM	EP0505125A2	09/23/92	Europe	X	
	AN	WO 98/46532	10/22/98	PCT	X	
AS	AO	EP1024116A2	08/02/00	Europe	X	

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	
	AQ	
	AR	

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\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).